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NOTICE OF ALLOWANCE AND FEE(S) DUE

- 4	20	1	5

06/03/2008

POTOMAC PATENT GROUP PLLC P. O. BOX 270 FREDERICKSBURG, VA 22404

7590

EXAMINER

XU, KEVIN K

ART UNIT PAPER NUMBER

2628

DATE MAILED: 06/03/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539.813	10/27/2005	Tomas Akenine-Moller	0110-051	6678

TITLE OF INVENTION: LOW-COST SUPERSAMPLING RASTERIZATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/03/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

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A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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P. O. BOX 270	7590 06/03 ATENT GROUP I JURG, VA 22404		I her State addr trans	Certify that this see Postal Service wit essed to the Mail Smitted to the USPTC	Ticate of Mailing or Trans Fee(s) Transmittal is bein th sufficient postage for fir Stop ISSUE FEE address O (571) 273-2885, on the G	smission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
			_			(Depositor's name)
			<u> </u>			(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	A	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,813	10/27/2005	AMDUDIC DACEEDICA	Tomas Akenine-Moller		0110-051	6678
ITTLE OF INVENTION	: LOW-COST SUPERS	AMPLING RASTERIZA	ATION			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE I	FEE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/03/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
XU, KE	VIN K	2628	345-611000			
1. Change of corresponde	ence address or indication	n of "Fee Address" (37	2. For printing on the pa	atent front page, list		
CFR 1.363). Change of correspo	ondence address (or Cha	nge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,			
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.		" Indication form	registered attorney or agent) and the names of up to			
			THE PATENT (print or typ	· ·		
PLEASE NOTE: Unle recordation as set forth	ess an assignee is ident n in 37 CFR 3.11. Comp	ified below, no assignee pletion of this form is NO	data will appear on the pa T a substitute for filing an a	tent. If an assignee assignment.	is identified below, the o	locument has been filed for
(A) NAME OF ASSIC	GNEE		(B) RESIDENCE: (CITY	and STATE OR CO	UNTRY)	
Please check the appropri	ate assignee category or	categories (will not be p	rinted on the patent): \Box	Individual 🖵 Corp	ooration or other private gr	oup entity 📮 Government
4a. The following fee(s) a	are submitted.		b. Payment of Fee(s): (Plea	co finct reapply one	newiously poid issue for	chaven abaya)
☐ Issue Fee			A check is enclosed.			shown above)
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).			
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_ ~ .	t <mark>us</mark> (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no long	er claiming SMALL	ENTITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee and	d Publication Fee (if requ		d from anyone other than th			he assignee or other party in
interest as shown by the I	ecords of the officed sta	tes i atent and i i aceimai	t office.			
Authorized Signature				Date		
Typed or printed name	2			Registration No.		
an application. Confident submitting the completed his form and/or suggesti	ation is required by 37 C iality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is estive depending upon the indivi- ble Chief Information Office	mated to take 12 mi dual case. Any com r. U.S. Patent and Tr	nutes to complete, including ments on the amount of ti- rademark Office, U.S. Den	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O.

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10/539,813	10/27/2005	Tomas Akenine-Moller	0110-051	6678
42015 75	90 06/03/2008		EXAM	INER
POTOMAC PATENT GROUP PLLC		XU, KE	VIN K	
P. O. BOX 270			ART UNIT	PAPER NUMBER
FREDERICKSBURG, VA 22404		2628		
			DATE MAILED: 06/03/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/539.813	AKENINE-MOLLER ET AL.
Notice of Allowability	Examiner	Art Unit
	KEVIN K. XU	2628
	KEVIN K. AU	2020
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communication. This application is subjection.	s application. If not included ation will be mailed in due course. THIS
1. This communication is responsive to 4/14/08.		
2. X The allowed claim(s) is/are <u>1, 4, 6-11, 13, 15-18, 21, 23-25</u>	<u>5, 27-35</u> .	
 Acknowledgment is made of a claim for foreign priority un All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d) or (f	·).
 Certified copies of the priority documents have 		
Certified copies of the priority documents have	• •	
Copies of the certified copies of the priority do	cuments have been received in	this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review(F	PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	•	
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment or in t	he Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	5 □ Notice of Inform	and Datant Application
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	<u> </u>	nal Patent Application
,	6. ☐ Interview Sumr Paper No./Mai	l Date
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>5/26/08</u> 	7. 🛛 Examiner's Am	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		tement of Reasons for Allowance
	9.	

DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Leather (6999100) teaches a similar system, method, and computer readable medium, for generating a sampling pattern covering an array of pixels for use in the anti-aliasing system, where each pixel has a pattern of sample points at a mirror plane within the array of pixels, wherein the sample point pattern of each pixel is a mirror image of a directly neighboring pixel, mirrored in a mirror plane and different from the pattern of said directly neighboring pixel. (Fig. 9, Col 14 lines 23-51; Col 13 lines 10-38, Fig. 6)

Leather further teaches pixel values derived from said sample points are displayed on a screen. (Fig. 9, Col 14 lines 23-51) However no prior art references anticipate or suggest the limitations of "...wherein the mirror planes are located on the edges of the pixel and the pattern has one sample point per pixel mirror plane..." in combination with any other claim limitations in claims 1, 11, 17, 18, 25 and 32.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Steven M. DuBois on 5/27/08.

In the specification

Page 12, line 21, after "independent claims," insert --Exemplary embodiments can, for example, be implemented as computer programs stored on computer-readable mediums.--

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN K. XU whose telephone number is (571)272-7747. The examiner can normally be reached on 8:30AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on 571-272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/539,813 Page 4

Art Unit: 2628

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kee M Tung/ Supervisory Patent Examiner, Art Unit 2628

/Kevin K Xu/ Examiner, Art Unit 2628 5/26/08 /K. K. X./